L 14730-65
ACCESSION NR: AT5007921

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with a packing discharger of 100 kilovolts, and work stopped on the variant with storage rings. Originally it was proposed to set up two devices: VEP-1 of 2 × 130 Mev energy, and VEP-2 of 2 × 500 Mev energy. The VEP-1 was considered as an actual model of an accelerator and as a device for conducting initial experiments at low energies. After the Panofsky report in 1958 on his work with colliding electron beams conducted in his laboratory at Stanford, construction ceased on 500-Mev storage paths and work was continued on the 2 × 130-Mev installation. Instead of work on colliding electron beams with energies of 500 Mev, work at the end of 1958 was conducted with colliding positron-electron beams and the planning of the VEPP-2 device was begun, whose main elements are a strong-current electron accelerator and a high-vacuum storage path of 700 Mev energy. At the present time the VEP-1 and VEPP-2 are installed in Novosibirsk. The VEP-1 is in a state of neglect, but at the end of 1964 experiments will be begun with it. Installation of the VEPP-2 has been completed. To obtain a marked effect from the application of colliding proton beams, an accelerator is needed with an energy of at least 10 Gev. Since the ordinary accelerator at such energies is a very bulky machine, it was decided to combine the idea of colliding proton beams with the creation of an iron-less impulse accelerator with very large fields and a neutralized central busbar. This latter work of creating such a machine was reported by the authors at a Moscow conference

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held in 1956. The presence of a field with two directions in an iron-less accelerator with central busbar permits the acceleration of protons toward opposite sides in one machine, which makes possible the collision of protons in case of a suitable race-track. At the present time the Institute is developing a proton device with a magnetic field of about 200 kilogauss and radius of 2 meters for a particle energy of 12 Gev in the beam (equivalent energy is around 300Gev). Tests are being conducted on models, and an effective method of injection by overcharging of negative ions is under study. Also under development are an impulse electric power supply system of 100 million joules capacity and an hf power supply. Since 1958 the Institute has been conducting theoretical investigations on the limits of applicability of quantum electrodynamics [V. N. Bayyer, ZhETF, 37, 1490 (1959), and UFN, 78, 619 (1962)] for the calculation of the radiational corrections to the electrodynamic cross-sections [V. N. Bayyer and S. A. Kheyfets, ZhETF 40, 613-715 (1961) and Nuclear Physics (in print)], and on other problems of high-energy particle physics that are connected with the preparation of experiments on colliding beams [V. N. Bayyer, I. B. Khriplovich, V. V. Sokolov, and V. S. Synakh, in ZhTF, 1961]. The present report takes up under the mentioned three main headings the following pertinent topics: the accelerator-injection, storage paths, electron-optical channel,

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L 47304-65

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input and output system, experiments on storage, proposed work, experimental set-up, physical layout of magnets, power supply, etc. Orig. art. has: 8 figures.

ASSOCIATION: Institut yadernoy fiziki SO AN SSSR (Institute of Nuclear Physics, SO AN SSSR)

SUBMITTED: 26May64 ENCL: 00 SUB CODE: EE, NP

NO REF SOV: 012 OTHER: 003

Card 5/5

RODIONOV, S. P. DECEASED 1962/
o.'61 /7

Geology

see IIC

RODIONOV, S.P., otv. red.

[Development of production in the Lvov and Stanislav economic regions] Pytannia rozvytku produktyvnykh syl L'vivs'koho i Stanislavs'koho ekonomichnykh administratyvnykh raioniv. Vidpovidatel'nyi red. S.P.Rodionov, Kyiv, Akad. nauk URSR. Vol.1. 1960. 138 p. (MIRA 14:12)
(Lvov Economic region--Economic policy)
(Stanislav Economic region--Economic policy)

3804i

S/263/62/000/005/009/010
I007/I207

Authors: Andreyev, E. P., Rodionov, S. S., and Yaritsyna, I. Ya.

Title: INVESTIGATION OF A FLAT SCINTILLATION DETECTOR OF SLOW (THERMAL) NEUTRONS

Periodical: *Referativnyy zhurnal, Mashinostroyeniye*, no. 5, 1962, 65, abstract 32.5.362 (*Tr. in-tov Kom-ta standartov, mer i izmerit. priborov pri Sov. Min SSSR*, no. 55 (115), 1961, 66-88)

Text: The VNIIM (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleyev [All-union Scientific Research Institute of Metrology im. D. I. Mendeleyev]), investigated certain characteristics of a flat, luminescent scintillation detector of slow (thermal) neutrons. The unit for testing the detector included the detector itself, the ФЭУ-19 (FEU-19) photomultiplier, the broad band amplifier of the "Sirene" type, the counting device of the "Flox" type and the BC-10 (VS-10) feeding stage. At a dose intensity of 5.10^3 microröntgen/sec^{-1}, the detector is almost insensitive to gamma radiations. Its detecting sensitivity for thermal neutrons is $4.7 \pm 0.3\%$. There are 4 figures and 6 references.

[Abstractor's note: Complete translation.]

Card 1/1

ANDREYEV, Ye.P.; RODIONOV, S.S.; YARITSYNA, I.A.

Study of a plane slow-neutron scintillation detector. Trudy inst.Kom. stand., mer i izm. prib. no.55:66-68 '61. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni Mendeleyeva.
(Scintillation counters) (Neutrons--Measurement)

31,281
S/589/61/000/055/004/006
D051/D113

21,6000

AUTHORS: Andreyev, Ye. P.; Rodionov, S.S.; Yaritsyna, I.A.

TITLE: Investigation of a flat slow neutron scintillator

SOURCE: USSR. Komitet standartov, mer i izmeritel'nykh priborov. Trudy institutov Komiteta, no. 55(115), Moscow, 1961. Issledovaniya v oblasti izmereniya ioniziruyushchikh izlucheniy, 66-68

TEXT: This article deals with investigations on a luminescent detector of slow neutrons of the T.V. Timofeyeva type (Ref. 1: Timofeyeva, T.V., Detektor medlennykh neytronov [Slow neutron detector], "Atomnaya energiya", No 8, 1957; Ref. 2: Timofeyeva, T.V., Khormushko, S.P., Ekrany dlya registratsii medlennykh neytronov [Screens for slow neutron recording], Izv. AN SSSR, ser. fiz., t. XXII, 1958, str. 14). The study was conducted in 1959 at VNIIM in order to determine the efficiency of this detector and also its sensitivity to γ-rays. A block diagram of the experimental installation is included. The experiments proved that at a dose rate of $5 \cdot 10^3$ r.sec^{-1} the detector is practically insensitive to γ-rays. The efficiency of the

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Investigation of a flat slow neutron ...

detector, as regards thermal neutrons, was determined by the ratio of counted pulses to thermal neutrons per unit of time. The neutron flux was determined on the basis of the absolute activity of an indian foil placed directly on the detector, the activity being measured with a 4π-counter (Ref. 4: Konstantinov, A.A., Absolyutnyy schet β-chastits [Absolute counting of β-particles], Trudy VNIIM, vyp. 30 [90], 1957). The expression for the efficiency of the detector is $\varepsilon = \frac{N_o \cdot 100}{\Phi_T S}$ (N_o -number of counted pulses per minute found to be equal to 5624; S-area of photocathode = 9 sm^2; Φ_T-thermal neutron flux established at $1.3 \cdot 10^4$ neutrons $\cdot min^{-1} \cdot cm^{-2}$).

Hence, $\varepsilon = \frac{5624 \cdot 100}{1.3 \cdot 10^4 \cdot 9} = 4.7\%$. The error was established at $\pm$ 0.3%.

There are 4 figures and 6 references: 4 Soviet and 2 non-Soviet-bloc. The two English-language references are: R. Koontz, M. Greenfield and A.Jarrett, NAA-SR, part II, 1955, p. 1137; M. Greenfield, R. Koontz and A. Jarrett, Nuclear Science and Engineering, v. 4, 1958, p. 563

Card 2/3

34284

S/589/61/000/055/004/006
D051/D113

Investigation of a flat slow neutron ...

ASSOCIATION: VNIIM

SUBMITTED: April 20, 1960

Card 3/3

RODIONOV, S.V.; GONCHAROV, N.A.

Proportioning device for atomizing varnish in electrical painting.
Der. prom. 13 no.1:21 Ja '64. (MIRA 17:4)

1. Lesotekhnicheskaya akademiya im. S.M.Kirova.

PROKOF'YEV, Nikolay Mikhaylovich. RODIONOV, S.V., prof., retsenzent; NEKHAMKIN, N.O., dots., kand. tekhn. nauk, otv. red.; ANPILOGOV, A.V., red.

[Mechanical processing of stock wood; textbook for advanced courses for graduate engineers and students of the Faculty of the Mechanical Technology of Wood] Mekhanicheskaia obrabotka zagotovok; uchebnoe posobie dlia kursov povysheniia kvalifikatsii diplomirovannykh inzhenerov i studentov fakul'teta mekhanicheskoi tekhnologii drevesiny. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1964. 55 p. (MIRA 18:5)

RODIONOV, S.V.; MININ, A.M.; ZHESTYANNIKOV, V.M.; GUDKIN, V.G.

Design of a standard unit for the finishing of products in the electrostatic field. Der. prom. 15 no.1:19-20 Ja '66.
(MIRA 19:1)

RODIONOV, Sergey Vasil'yevich; [illegible]YANIKOV, Vladimir Mikhaylovich; RYABOV, Leonid Ivanovich; GARIBYAN, Knarik Yervandovna; GOLCHAKOV, N.A., red.

[Finishing wood articles in an electrostatic field] Otdelka izdelii iz drevesiny v elektrostaticheskom pole. Moskva, Lesnaia promyshlennost', 1964. 96 p. (MIRA 17:10)

RODIONOV, S.V.; GONCHAROV, N.A.

Possibility of processing finished chair parts on woodworking machinery. Nauch. trudy LTA no.97:75-77 '62. (MIRA 17:2)

RODIONOV, S.V.; ZONOV, Ye.G.; MAYATIN, A.A.

Holding time for the elements of the mechanics of a piano following decating under conditions of assembly line work. Nauch. trudy LTA no.97:3-9 '62. (MIRA 17:2)

RODIONOV, S.V.; CHEBAYEVSKAYA, L.P., red.; BARANOV, Yu.V., tekhn. red.

[Multiple, curvilinear, and surface integrals] Kratnye, krivolineinye i poverkhnostnye integraly. 2. izd. n.p. Rosvuzizdat, 1963. 136 p. (MIRA 16:12)
(Integrals)

MIKHAYLOV, Vladimir Nikolayevich, prof., doktor tekhn.nauk; RODIONOV, S.V., red.; FEDOROV, B.M., red.izd-va; SHITS, V.P., tekhn.red.

[Woodworking technology] Tekhnologiia derevoobrabatyvaiushchikh proizvodstv. Moskva, Goslesbumizdat, 1957. 401 p. (MIRA 11:5)
(Woodwork)

ROLIONOV, S.V., kand. tekhn. nauk.

Organizing conveying for piano assembly work. Nauch. trudy Len. lesotekh. akad. no.76:64-76 '57. (MIRA 11:4)
(Piano—Construction) (Conveying machinery)

RADIONOV, S.V., kandidat tekhnicheskikh nauk; MIKHAMKIN, N.O., kandidat tekhnicheskikh nauk; ZOMOV, Ye.G., kandidat tekhnicheskikh nauk.

Planning laying-out processes. Der.prom.4 no.10:25-29 O '55. (MLRA 9:1)

1.Leningradskaya ordena Lenina lesotekhnicheskaya akademiya imeni Kirova. (Woodworking industries)

NEKHAMKIN, Natan Osipovich, dots., kand. tekhn. nauk; GRUBE, A.E., prof., doktor tekhn. nauk, retsenzent; RODIONOV, S.V., dots., kand. tekhn. nauk, otv. red.; KUZNETSOVA, L.Ya., red.; URITSKAYA, A.D., tekhn. red.

[Precision in woodworking and how to achieve it] Tochnost' obrabotki drevesiny i ee obespechenie; lektsiia po kursu "Tekhnologiia izgotovleniia izdelii iz drevesiny," dlia studentov fakul'teta mekhanicheskoi tekhnologii drevesiny. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1961. 40 p. (MIRA 14:10)
(Woodwork)

RODIONOV, S.V.; ZHESTYANIKOV, V.M.; RYABOV, L.I.; IZRAL'YANTS, V.M.; GOLUBEVA, T.M., inzh., red.; SHILLING, V.A., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Varnishing of wooden components in an electrostatic field using capacitive generators] Lakirovka detalei iz drevesiny v elektrostaticheskom pole s primeneniem emkostnykh generatorov. Leningrad, 1962. 27 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Derevoobrabatyvaiushchaia promyshlennost', no.9)
(MIRA 16:3)

(Varnish and varnishing)

KOBLIKOVA, Aleksandra Georgiyevna, dots., kand. tekhn. nauk;
KASHINA, T.S., dots., kand. tekhn. nauk, retsenzent;
RODIONOV, S.V., dots., kand. tekhn. nauk, otv. red.;
KIRILLOVA, L.D., red.

[Glues in woodwork; lectures from the course "Technology of the manufacture of glued materials and plates" for students of the Faculty of the Mechanical Technology of Wood] Klei v derevoobrabotke; lektsii po kursu "Tekhnologiia proizvodstva kleenykh materialov i plit" dlia studentov fakul'teta mekhanicheskoi tekhnologii drevesiny. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1962. 115 p. (MIRA 17:7)

RODIONOV, S.V., kandidat tekhnicheskikh nauk; NEKHAMKIN, N.O., kandidat tekhnicheskikh nauk; ZONOV, Ye.G., kandidat tekhnicheskikh nauk.

Computing technologycal tolerances in the woodworking industry. Der. i lesokhim. prom. 3 no.12:3-7 D '54. (MLRA 8:1)

1. Leningradskaya ordena Lenina lesotekhnicheskaya akademiya im. S.M.Kirova.
(Woodworking industries)

VLASOV, Georgiy Dmitriyevich, prof., doktor tekhn.nauk; KULIKOV, Valentin Anatol'yevich, dotsent, kand.tekhn.nauk; RODIONOV, Sergey Vasil'yevich, dotsent, kand.tekhn.nauk. Prinimali uchastiye: SOKOLOV, P.V., dotsent, kand.tekhn.nauk; SAPOZHNIKOV, A.K., inzh.; NEKHAMKIN, M.O., red.; VOLOKHONSKAYA, L.V., red.izd-va; KORNYUSHINA, A.S., tekhn.red.

[Technology of the woodworking industries] Tekhnologiia derevoobrabatyvaiushchikh proizvodstv. Moskva, Goslesbumizdat, 1960. 566 p. (MIRA 13:9)

(Woodworking industries)

85654

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S/138/60/000/009/001/012
A051/A029

AUTHORS: Paskhalis, T.K.; Sivov, V.A.; Rodionov, S.Ye.; Kostina, S.I.; Kasatkina, Ye.I.

TITLE: The Production of soft Butadiene-Nitrile Rubbers 15

PERIODICAL: Kauchuk i Rezina, 1960, No. 9 pp. 1 - 4

TEXT: The authors conducted a study of the conditions for producing soft butadiene-nitrile rubbers of standard composition, such as the СКН-18 (SKN-18), СКН-26 (SKN-26) and СКН-40 (SKN-40) types, both in the laboratory and under industrial conditions. These soft rubbers obtained during the polymerization process would eliminate the costly mastication in the rubber plants, which requires an excess expenditure of energy, steam and equipment. The experiments were conducted in 60-and 10-liter capacity autoclaves with mixing devices. A detailed description of the procedure is given. The ГОСТ7738-55 (GOST 7738-55) industrial testing method of the quality of synthetic rubbers and latexes was used (Ref. 4). Diproxide (0.35 weight parts) was used as the polymerization regulator and triethanolamine (0.1 weight parts) as the activator. The effect of diproxide feeding into the polymerizing system was investigated. Rubbers obtained with a single feeding of

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A051/A029

The Production of Soft Butadiene-Nitrile Rubbers

diproxide into the system before the beginning of the reaction are less soluble in acetone and the properties of their vulcanizates are lower than those of rubbers obtained by feeding diproxide in three batches. A rubber with homogeneous hardness, completely soluble in acetone, at a polymerization depth of from 5% to 80% is obtained when diproxide is fed into the system hourly in a uniform way. It was found that a rubber of any hardness index could be produced by regulating the diproxide dosage. Figure 1 shows the effect of the diproxide dosage on the rate of polymerization for the three types of rubbers studied, and Figure 2 indicates the effect of the dosage on the hardness of the rubber, according to Defoe. It is pointed out that the rate of polymerization decreases by about 10% in the production of soft rubbers. By increasing the quantity of triethanolamine in the composition to 0.05 weight parts the polymerization rate could be maintained constant. Vulcanizates from soft SKN-40 and SKN-26 rubbers corresponded to the GOST standards if the rubber was separated from the latex by rinsing for a period of 10-15 min, and those of SKN-18 rubber by rinsing for 15-20 min. A drop of physico-mechanical properties was noted if this degree of rinsing exceeded the optimim value. By conducting experiments under industrial conditions it was noted that the hardness of the rubbers decreases with an increase in the amount of diproxide used in the polymerization system, and the polymerization process itself is slowed up. This

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The Production of Soft Butadiene-Nitrile Rubbers

is especially evident for SKN-40 rubber, where the consumption of triethanolamine is only 0.0075 weight part based on the hydrocarbons. The strip of soft rubber obtained from experimental SKN-40 and SKN-26 was found to be thinner than the standard one and to have less tenacity (especially for rubbers with a hardness of only 900 g), therefore causing cracks in the surface after drying. The drying unit's productivity drops by 10 - 12% in producing soft rubbers with a hardness of 900 - 1,200 g, and in producing rubbers with a hardness of less than 900 g it drops by 25 - 30%. The soft SKN-40 and SKN-26 vulcanizates comply with the standards of the GOST as to their cracking resistance, specific and residual elongation. It is noted, however, that the cracking resistance is lower by an average of 15 kg/cm^2 in vulcanizates from soft rubbers than those from standard mass-produced rubbers. Other disadvantage noted in the soft rubbers were the difficulty of packing, transportation and storage. They tend to adhere to the drying rods. Vulcanizates obtained from standard soft SKN-40 and SKN-26 mixes are actually equivalent to those obtained from vulcanizates based on mass-produced rubbers. Experiments and tests were carried out at the NIIRP, the "Kauchuk" Plant and the Yaroslavl' Plant for Rubber Articles. There are 5 tables, 2 graphs and 7 Soviet references.

ASSOCIATION: Yaroslavskiy zavod sinteticheskogo kauchuka (Yaroslavl' Plant of Synthetic Rubber)

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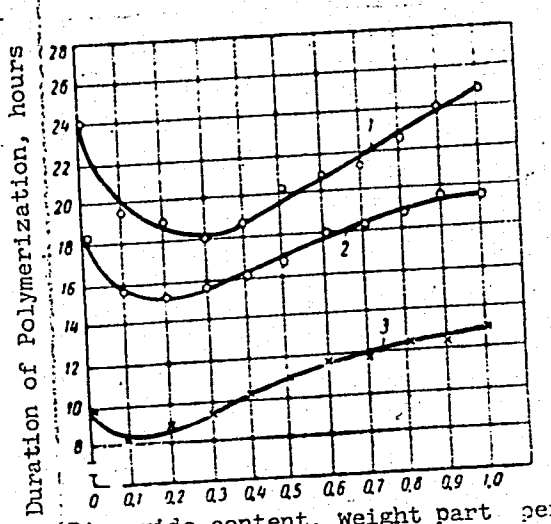
The Production of Soft Butadiene-Nitrile Rubbers

Figure 1:



Diproxide content, weight part per 100 weight part of rubber SKN-18 SKN-26 SKN-40

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The Production od Soft Butadiene-Nitrile Rubbers

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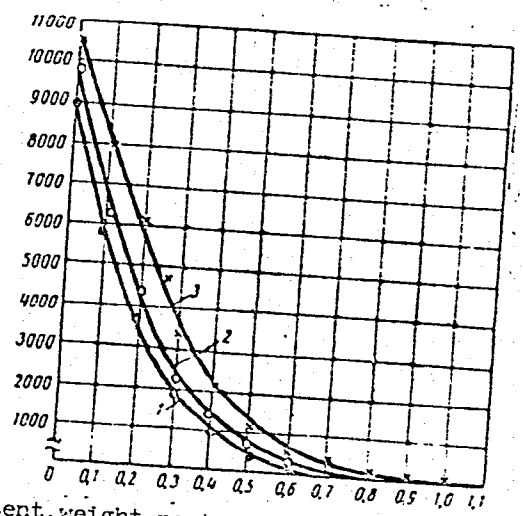
Figure 2:



Defoe hardness, g

Diproxide content, weight part per 100 weight part of rubber SKN-12 SKN-26 SKN-40

Card 5/5

PASKHALIS, T.K.; SIVOV, V.A.; RODIONOV, S.Ye.; KOSTINA, S.I.; KASATKINA, [redacted]Ye.I.

Preparation of soft butadiene-nitrile rubbers. Kauch.i rez. 19 no.9:1-4 S '60. (MIRA 13:10)

1. Yaroslavskiy zavod sinteticheskogo kauchuka.
(Rubbers, Synthetic)

RODIONOV, V.

Subversive activities of the enemies of socialism. Blok.agit.vod. transp. no.8:8-19 Ap '57. (MLRA 10:5)
(Europe, Eastern--Subversive activities)
(United States--Foreign relations)

RODIONOV,V.

City on water. Vokrug sveta no.9:30-32 S'55. (MLRA 8:12)
(Venice--Description)

RODIONOV, V.

Chemistry on a school farm. Prof.-tekh. obr. 21 no.12:11-12 D '64. (MIRA 18:2)

1. Direktor Ust'-Labinskogo sel'skogo professional'no-tekhnicheskogo uchilishcha No.22, Krasnodarskiy kray.

RODIONOV, V.

An obsolete procedure in the distribution of models. Sov.torg. 33 no.6:59 Je '60. (MIRA 13:7)

1. Direktor Moskovskoy shveynoy fabriki No.3.
(Moscow--Clothing industry)

DAVIDENKO, G. (gorod Odessa); RODIONOV, V. (gorod Odessa); POBEGAYLO, D. (gorod Kamenets, BSSR); CHERNYAVSKIY, N. (Khabarovskiy kray).

Prolong the duration of films. (Responses to comrade Khromykh's article). Kinomekhanik no.4:28-30 Ap '53. (MLRA 6:o)

RODIONOV, V., inzh.

The ZIL-111 automobile. Avt. transp. 37 no.5:41-47 My '59.
(MIRA 12:8)

(Automobiles--Design and construction)

RODIONOV, V., starshiy kinomekhanik (Tetyushskiy raykinoteatr "Oktyabr'", Tatarskaya ASSR).

Take care of the film. Kinomekhanik no.8:31-32 Ag '53. (MLRA 6:8)
(Moving-picture projection)

NUZHDIN, A., RODIONOV, V.

Bee Culture

Raise the quality of bee colonies, fulfill the plan of beekeeping in every collective farm.
Pchelovodstvo 29, no. 4, April 1952

9. Monthly List of Russian Accessions, Library of Congress, August 1953, Uncl.

[redacted], M. N. I [redacted], E. I.

26958

Poluchenie Ftalida Iz Ftalevogo Angidrida. Zhurnal Prikl. Khimiy, 1949, No. 8, S. 853-56. - Bibliogr: 11 Nazv.

SO: LETOPIS NO. 34

RODIONOV, V.

PA 66T25

USSR/Academy of Sciences Jan/Feb 1948

"Academician Evgen'yevich Poray-Koshits," V. Rodionov, 3½ pp

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 1

Written in honor of A. Ye. Poray-Koshits' 70th birthday, with summary of his scientific activities to date. Includes details of his work on dyes.

FDB 66T25

RODIONOV, V. , polkovnik

Sappers carry out reconnaissance in winter. Voen. vest. 41 no.1: 90-93 Ja '62. (MIRA 16:11)

RODIONOV, V.

Why we do not satisfy demand. Sov. torg. 35 no.3:13-15 Mr '62. (MIRA 15:3)

1. Direktor shveynoy fabriki No.3 Ispolnitel'nogo komiteta Moskovskogo gorodskogo soveta deputatov trudyashchikhsya.
(Moscow--Clothing industry)

RODIONOV, V.

Automatic ticket distributor for motorbuses. Avt. transp. 43 no.8: 12 Ag '65. (MIRA 18:9)

USSR/Academy of Sciences Jan/Feb 1948

"Academician Evgen'yevich Poray-Koshits," V. Rodionov, 3½ pp

"Iz Ak Nauk SSSR, Otdel Khim Nauk" No 1

Written in honor of A. Ye. Poray-Koshits' 70th birthday, with summary of his scientific activities to date. Includes details of his work on dyes.

FDB 66T25

USSR

Cultivated Plants, Fodder Grasses and Roots

Sel'skokhozyaystvennaya Biologiya, No. 5, 1949, No. 20356

Author : Rodionov, V.A.

Inst. : Sci.Res.Inst.of Agric.of the Central Districts*

Title : Sowing Times for Perennial Grasses Under Winter Crops.

Orig. Pub. : Byul. nauchno-tekhn. inform. N.-i. in-ta zemledeliya tsentr. r.-nov nechernozemn. zony** poleay, 1948, No.3, 42-47

Abstract : No abstract

*of the Non-Chernozem Zone.

CARD : 1/1

RODIONOV, V.A.

Electric power engineering in Switzerland. Prom.energ. 16 no.9:46-47 S '61. (MIRA 14:8)
(Switzerland--Electric power)

SKLYAROVA, V.K., otv. red.; ARALOVA, V.I., red.; VOL'MAN, V.K., red.; DERZHAVIN, B.A., red.; IVANOVA, V.A., red.; KOMAROVA, V.R., red.; KULICHEV, A.F., red.; MAKAROVA, N.S., red.; NARODETSKIY, red.; PROKOF'YEVA, T.I., red.; PROZOROVA, T.A., red.; RAZUMOVSKAYA, S.V., red.; RODIONOV, V.A., red.; SURGUNOVA, N.S., red.; KHVOSTOV, V.V., red.; KLEYMENOVA, T.A., tekhn. red.

[Men's clothing] Muzhskaia odezhda. Moskva, 1961. 27 p. (MIRA 15:2)

1. Russia (1923- U.S.S.R.) Gosudarstvennaya planovaya kommissiya. Vsesoyuznyy institut assortimenta izdeliy legkoy promyshlennosti i kul'tury odezhdy.
(Men's clothing)

RODIONOV, V.A.

Automatic mud-analysis logging station. Razved. geofiz. no.5:143-144 '65. (MIRA 18:9)

RODIONOV, V.A.

Machine for suction and recovery of caprolactam vapors. Khim. volok. no.5:64-67 '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut legkogo i tekstil'nogo mashinostroyeniya, Chernigov.

RODIONOV, V.A.

Electric coolers for cutters. Prom. energ. 18 no.9:44-45 S '63.

RODIONOV, V.A.; CHUDINOVA, R.I.

Possibilities of using mud logging in oil prospecting operations in the West Siberian Plain. Geol. nefti. i gaza 9 no.7:42-47 Je '65. (MIRA 18:12)

1. Novosibirskiy geofizicheskiy trest.

RODICHOV, V.A.

Automatic control of reactive power in consumer systems in Czechoslovakia. Prom. energ. 19 no. 4:45-46 Ap '64.
(MIRA 17:5)

ACC NR: AP6032627 (A) SOURCE CODE: UR/0000/66/000/000/0146/0161

AUTHOR: Nikitin, V. M. (Candidate of technical sciences); Rodionov, V. A. (Engineer)

36

B+1

ORG: none

TITLE: Welding VKS-1 high-strength steel

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. Avtomatizatsiya, mekhanizatsiya i tekhnologiya protsessov svarki (Automation, mechanization and technology of welding processes) Moscow, Izd-vo, Mashinostroyeniye, 1966, 146-161

TOPIC TAGS: steel, high strength steel, ~~steel~~ TIG welding, ~~submerged~~ arc welding, weld distortion, weld distortion prevention, weld heat treatment, weld strength/ VKS1 steel

ABSTRACT: Experiments have been made to determine the effect of the clamping force and welding thermal cycle on the distortion of joints in high-strength VKS-1 (42Kh2GSNM) martensitic steel. The steel contains (%) 0.45C, 0.75 Mn, 0.98 Si, 1.74 Cr, 0.68 Ni, 0.08 V, 0.60 Mo, and in the heat treated condition has a tensile strength of 190—200 kg/mm^2. Sheets 1.4 and 2.0 mm thick, clamped with a force of up to 100 kg/mm, were TIG welded from both sides. It was found that with increasing clamping force, the distortion can be totally prevented at a clamping force of 44 and 31 kg/mm for 2.0 and 1.4 mm thick sheets, respectively. Simultaneous local heat

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ACC NR: AT6032627

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treatment and welding were tested. A variant with an additional heat source (gas flame) trailing the arc at a distance of about 170 mm ensured a brief tempering of the weld and yielded the best results. In this variant, because of the relatively large distance between the arc and the additional heat source, each section is subjected to the action of two individual heat sources, and with rigid clamping no distortion occurred. Clamping devices used in industry develop a clamping force not exceeding 4 kg/mm. Therefore, a method of rigid clamping has been developed at MATI in which the sheets, in addition to the usual clamping along the faying edges, are held at the end with wedges. This method yielded welds with a strength of 190.7 kg/mm^2 compared with 187.4 kg/mm^2 for the welds of conventionally clamped sheets. In submerged arc welding of VKS-1 steel, AN-15 flux (25.5% SiO_2, 2.2% MnO) was found to be the best. It ensured a stable arc, satisfactory weld formation, a weld notch toghness of 6.88—7.45 kg·m/cm^2, and a weld tensile strength of 173.7—177.8 kg/mm^2, compared with 7.31 kg·m/cm^2 and 206—209 kg/mm^2 for the parent metal. Orig. art. has: 8 figures and 9 tables.

SUB CODE: 13/ 11/ SUBM DATE: 14May66/ ORIG REF: 010/ ATD PRESS: 5099

Card 2/2 egh

KROPP, L.I., inzh; KUZNETSOV, N.V., doktor tekhn. nauk; YEREMIN, I.Ya., inzh.; RODIONOV, V.A., inzh.

Study of a vibrational method for cleaning a screen-type steam superheater in the TP-17 boiler operating on pulverized shale. Teploenergetika 10 no.11:32-38 N '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskiy institut i Turbinno-kotel'nyy zavod.

RODIONOV, V.A., inzh.

Economics and work rate in the construction of electric power distribution networks. Elek. sta. 34 no.7:33-37 Jl '63. (MIRA 16:8)

S/108/63/018/001/011/011
D201/D308

AUTHORS: Danilov, V.L. and Rodionov, V.A.

TITLE: Bridge phase-shifter with a shift up to 180°

PERIODICAL: Radiotekhnika, v. 18, no. 1, 1963, 72-77

TEXT: The authors describe a bridge phase-shifter which makes it possible to vary continuously the phase of its output voltage from 0 to 180°. The bridge consists of two fixed impedances and of two reactances shunted by a potentiometer the slider of which, connected to the junction of the two reactances, forms the hot terminal of the output, so that each reactance may be alternately reduced to zero. The design formulas and the circuit diagram of a practical phase shifter with two pentodes and one double-triode is given. With suitable components the device has a linear phase characteristic and an accuracy of about 1%. A special compensating device is introduced in order to improve the stability of the modulus of the transfer coefficient to within approx. 0.15 dB. There are 7 figures.

Card 1/2

RODIONOV, V.A.

Consolidation of the electric power systems of the German Democratic Republic, Czechoslovak Socialist Republic, Polish People's Republic, and the Hungarian People's Republic (from "Energietechnik," no.7 1961 and "Osterr. Z. Elektrizitatswirtschaft," no.5 1961). Prom. energ. 17 no.9:45-46 S '62. (MIRA 15:8)
(Europe, Eastern--Interconnected electric utility systems)

RONIONOV, V.A., inzh.

Extractor with a fluidized bed. Khim.mashinostr. no.3:8 My-Je '67.
(MIRA 18:1)

RODIONOV, V.A., inzh. (Moskva); YERMILOV, A.A., inzh. (Moskva)

Principal trends in carrying-out overall electrification.
Elektrichestvo no.8:83-85 Ag '61. (MIRA 14:10)
(Electrification)

RODIONOV, V.A.

More attention to the economic efficiency of industrial enterprises.
Leg.prom. 18 no.7:11-13 Jl '58. (MIRA 11:9)

1.Direktor Moskovskoy shveynoy fabriki No.3 imeni Shkiryatova.
(Industrial management)

RODIONOV, V.A.

The DT-56 tractor. Biul.tekh.-ekon.inform. no.5:49-51 '58.
(MIRA 11:7)

(Tractors)

RODIONOV, V.A.

Use of the radiotelephone for telecontrol of unattended substations (from "Telefunken Ztg.," no.112 1956). Prom. energ. 12 no.1:31 Ja '57. (MLRA 10:2)

(Remote control) (Electric substations)

RODIONOV, V.A.

Ten years of unified dispatcher control (from "Osterr. Z. Elektrizitatswirtschaft," no.12, 1955). Prom. energ. 12 no.3:33 Mr '57.
(Austria--Electric power distribution) (MLRA 10:4)

1. RODIONOV, V. A.

2. USSR (600)

4. Clothing Industry

7. Radical improvement of the quality of clothing - trade products. Leg. Prom. 12, no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

RODIONOV, V.A.

Urgent problems of quality in the clothing industry should be solved. Leg. prom. 15 no.9:14-16 S '55. (MLRA 9:1)

1.Direktor fabriki imeni Shkiryatova.
(Clothing industry)

RODIONOV, V.A.; GAYDA, L.T.

Extraction of capron crumbs. Khim.volok no.6:13-16 '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut legkogo i tekstil'nogo mashinostroyeniya.

RODIONOV, V. A.

USSR/Miscellaneous - Tractors

Card 1/1 : Pub. 12 - 8/14

Authors : Rodionov, V. A., and Gorozhankin, V. I.

Title : The marsh land tractor DT-55

Periodical : Avt. trakt. prom. 3, insert, March 1954

Abstract : The technical properties of the caterpillar-type tractor DT-55, used in melioration work of marsh lands, are described. Illustrations.

Institution : The Tractor Plant, Stalingrad

Submitted : ...

RODIONOV, V.A.

The DT-57 tractor for work on sharp inclines. Avt. i trakt. prom. no.11:7-10 N '55. (MLRA 9:2)

1.Stalingradskiy traktornyy zavod.
(Tractors)

RODIONOV, V.A.

The working of precision parts on a multiple-spindle automatic machine. Stan. i instr. 26 no.4:30-32 Ap '55.
(Machinery, Automatic) (MLRA 8:6)

RODIONOV, V.A. (Moskva)

Changing the procedure for selecting and manufacturing different clothing styles. Shvein.prom. no.2:6-7 Mr-Ap '60. (MIRA 13:11)
(Clothing industry--Management)

RODIONOV, V.F.

[Selective transmission systems for passenger cars] Stupenchatye korobki peredach legkovykh avtomobilei. (Razvitie konstruktsii avtomobilei, Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, no.11, 1953) 127 p. (MLRA 6:8)

(Automobiles--Transmission devices)

LUNEV, I.S. [reviewer]; RODIONOV, V.F. [author],

"Automobile transmission gear boxes." V.F.Rodionov. Reviewed by I.S.Lunev. Avt. trakt. prom. no.12:29-30 D '53. (MLRA 6:12)

1. Institut mashinovedeniya Akademii nauk SSSR (for Lunev).
(Automobiles--Transmission devices) (Rodionov, V.F.)

RODIONOV, V. F., (Grad Stud)

Dissertation: "A Determination of the Parameters and Investigation of the Overdrive of a Passenger Automobile With High Dynamic Qualities." Cand Tech Sci, State Union Order of Labor Red Banner Sci Res Automobile and Automotive Inst, 30 Jun 54. (Vechernyaya Moskva, Moscow, 22 Jun 54)

SO: SUM 318, 23 Dec 1954

RODIONOV, V.F.

The ZIL-111 automobile. Biul.tekh.-ekon.inform. no.5:73-76 '58. (MIRA 11:7)
(Automobiles)

RODIONOV, V.F.

Design of the cardan transmission and the trend toward lowering the height of passenger cars. Avt. prom. no. 1:21-24 Ja '61. (MIRA 14:4)

1. Moskovskiy avtozavod imeni Likhacheva.
(Automobiles—Design and construction)
(Automobiles—Transmission devices)

RODIONOV, V.F.

Designing the suspension of the power unit of passenger cars.
Avt.prom. 28 no.4:9-15 Ap '62. (MIRA 15:4)

1. Moskovskiy avtozavod imeni Likhacheva.
(Automobiles—Springs)

KODIONOV, V.G., inzh.

Effect of openings in the yokes and cores of magnetic circuits on the losses and idle current of an electric transformer. Vest. elektroprom. 34 no.2:16-17 F '63. (MIRA 16:2)
(Electric transformers)

RODIONOV, V.F., kand. tekhn. nauk

Determining parameters of power transmission plants of passenger cars. Avt. prom. 29 no.4:20-23 Ap '63. (MIRA 16:6)

1. Moskovskiy avtozavod imeni Likhacheva.
(Automobiles—Transmission devices)

CHUDNOSOVETOV, V.A., prof.; RUTENBERG, L.A., kand.med.nauk; RODIONOV, V.I., kand.pedagogicheskikh nauk; SMIRNOV, N.P., kand.med.nauk; SHENING-PARSHINA, M.M., kand.med.nauk

Health hints. Zdorov'e 8 no.9:30-31 S '62. (MIRA 15:9)
(HYGIENE)

PODSHIVALOV, A.A.; RODIONOV, V.I.

Bunker-type installation for loading shavings into a motor vehicle. Der. prom. 12 no.8:24-25 Ag '63. (MIRA 16:11)

RODIONOV, V.I.

Daily displacement of the radiants of small showers. Izv.AN Turk. SSR no.3:96 '56. (MLRA 9:12)

1. Institut fiziki i geofiziki Akademii nauk Turkmenskoy SSR.
(Meteors)

RODIONOV, V.I.

Orbit of the Gamma Leonid meteoric shower. Izv.AN Turk.SSR no.4: 95-96 '56. (MLRA 9:12)

1. Institut fiziki i geofiziki Akademii nauk Turkmenskoy SSR.
(Meteors--February)

VOL'KENAU, A.V., kandidat tekhnicheskikh nauk; RODIONOV, V.I., gornyy inzhener.

Remarks on Engineer I.D.Averbukh's and Doctor of Technology S.A.Volotkovskii's pamphlet "Norms of specific electric power consumption in the backfilling of mined space in the Kuznetsk Basin mines." A.V.Vol'kenau, V.I. Rodionov. Ugol' 28 no.6:45-46 Je '53. (MLRA 6:6)
(Electricity in mining) (Averbukh, I.D.) (Volotkovskiy, S.A.)

RODIONOV, V.I.

Effect of the velocity of meteors on their distinctiveness. Izv.AN Turk.SSR no.2:96 '56. (MLRA 9:8)

1. Institut fiziki i geofiziki AN Turkmenskoy SSR.
(Meteors)

RODIONOV, V.I.

Position of the maximum brilliance of a meteor in relation to the brilliance of the meteor. Izv.AN Turk.SSR no.2:96-97 '56.
(MLRA 9:8)

1. Institut fiziki i geofiziki AN Turkmenskoy SSR.
(Meteors)

RODIONOV, V.I.; ZAKHAROV, V.S.; REYSH, A.K.

[Coal mine equipment] Oborudovanie ugol'nykh kar'erov. Moskva, Ugletekhizdat, 1952. 175 p. (MLRA 6:8)
(Coal mine equipment)

RODIONOV, V. I. Cand Bio Sci (diss) "The biology of growth and agrotechnics of nectar-feed mixtures," Gor'kiy, 1960, 22 pp, 200 cop. (Gorkiy State Agricultural Institute) (KL, 42-60, 113)

RODICHOV, V. I.

Pervonachal'nyi splav lesa v puchkakh v Volzhsko-Kamskom basseine (Initial rafting of timber in bundles in the Volga-Kama Basin) Kazan, Tatgozidat, 1952. 36 p.

SO: Monthly List of Russian Accessions, Vol 6, No. 3, June 1953

ROZHKOV, V.I.

Lumbering

Self-tightening sea rafts
Les. prom. 12 no. 3, 1952

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

RODIONOV, Viktor Ivanovich; RAKHMATULLIN, Mennan Garifzyanovich; PIMENOV, A.N., redaktor; [illegible]OKINA, A.M., redaktor izdatel'stva; KARASIK, N.P., tekhnicheskiy redaktor

[Floating tree-length logs in the Volga-Kama Basin] Splav khlystov v Volzhsko-Kamskom basseine. Moskva, Goslesbumizdat, 1957. 57 p. (MIRA 10:8)

(Volga River--Lumber--Transportation)
(Kama River--Lumber--Transportation)

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S/035/61/000/008/020/022
A001/A101

3.2440

AUTHOR: Rodionov, V.I.

TITLE: Diurnal and annual variations of meteoric activity according to observations at Ashkhabad

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 8, 1961, 66, abstract 8A552 ("Tr. In-ta fiz. i geofiz. AN TurkmSSR", 1959, v. 6, 52 - 95)

TEXT: The author describes the results of processing the visual observations of I.S. Astopovich at Ashkhabad (1942-1945). He presents the data from the observational register pertaining to meteoric activity. The latter is determined reliably in each stellar magnitude, owing to abundance of materials (15,242 meteors were recorded in 66,176 min of observations during 436 nights of work). Diurnal variation curve was derived from 10,907 meteors. A comparison with the data of 1957-1958 shows that the course of meteoric activity did not change essentially. Annual variation is presented for two full years: 1943 and 1944. To detect mid-night effect, semi-hourly numbers are used, rather than hourly ones. There are 13 references.
[Abstracter's note: Complete translation] I. Astapovich

Card 1/1

RODIONOV, VI

Spravochnik voennogo zheleznodorozhnika. [Handbook of a military railway man].
Khar'kov, na varti, 1934. 340 p. illus.

DLC: TF145.R6

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952, Unclassified.

RODIONOV, V.M.; ANTOKOL'SKAYA, Zh.A.; CHUDINOVSKIKH, A.V.; LOBODA, L.A.

Preparative method of electrophoretic separation of blood proteins in starch gel. Lab.delo 6 no.1:23-25 Ja-Fe '60. (MIRA 13:4)

1. Iz instituta biologicheskoy i meditsinskoy khimii AMN SSSR, Moskva.

(BLOOD PROTEINS) (ELECTROPHORESIS)

RODIONOV, V.M.

TS10-M sharpener. Sel'khozmashina no.9:15-17 S '57. (MLRA 10:9)
(Grinding machines)

RODIONOV, Vladimir Mikhaylovich, 1878-

Collection of nomograms for radio engineering Moskva Sovetskoe radio, 1953 110 p.
(54-28365)

TK6553.R6

RODIONOV, V.M.; KUCHUMOVA, K.I., redaktor; KOHUZEV, N.N. tekhnicheskiy redaktor.

[Collection of alignment charts for radio engineering] Sbornik nomogramm po radiotekhnike; izd. 2-e, perer. i dop. Moskva, Izd-vo "Sovetskoe radio," 1955. 163 p., 112 nomograms. (MLRA 8:8)
(Radio circuits) (Nomography(Mathematics))

CARD 1 / 2 PA - 1302

SUBJECT USSR / PHYSICS
AUTHOR SAMOILOV, V.F., RODIONOV, V.M.
TITLE On a Possible Method of Improving the Accuracy of a Television Picture.
PERIODICAL Radiotechnika, 11, fasc. 4, 44-48 (1956)
Issued: 5 / 1956 reviewed: 9 / 1956

The distinctness of the image is determined by the transmission capacity of the "fronts" of a television signal (sharp transition from bright to dark and vice versa) and by the capacity of reproducing fine details. A decrease of sharpness is connected with the finite diameter of an electron beam in reception- and transmitter tubes.
The device described in this case only increases the contrast of the fine details, it does, however, not exercise any influence upon the front of the television signal; it does not react to the steepness of the front of the impulses, but on the duration of these impulses. The "contrastor" for fine details must satisfy the following demands: 1.) Differentiation of the television signal for the purpose of determining its derivative. 2.) Shift of the signal of the derivative by the time approximately necessary for the transmission of the element of a picture. 3.) Comparison of the signs of the shifted and of the not shifted signal of the derivative. 4.) If signs differ the contrasts of the television signal must increase. In all other cases (++,--,0+,+0,-0,0-,00) the television signal must pass unchanged through the contrastor. By way of an explanation of what has just been said the trans-

formation of a television signal (fine detail and front) is studied as an example.
A drawing illustrates the simplified block scheme of the device which satisfies these conditions. On this occasion the television signal is differentiated and, after suitable amplification, transferred to the inputs of two uniform shift lines with tuned load. The circuit of this device is arranged for the separate regulation and control of all three components, i.e. of the main video signal, as well as of the "white" and "black" contrasting impulses. The here discussed variety of the block scheme is not the only one, for the order of differentiation and separation as to time of the "video signal" is not of essential importance. The variety with separation as to time of the signal after differentiation is more simple and more economical.
The television signal is differentiated in the contrastor by means of an amplification cascade with penthode switched on to inductive load. A bilateral limiter with germanium diodes should be switched on to the channel for the amplification of the differentiated signal. The main video signal and the contrasting impulses are superimposed by means of cascades which are switched on to a common load resistance.

INSTITUTION: